7500054

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TO ALL TO WHOM THESE PRESENTS SHALL COME;

Rogers Brothers Seed Company

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SEVENTERN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'Greenpak'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of November in

the year of our Lord one thousand nine hundred and seventy-five

Commissioner Plant Variety Protection Office

Grain Division

Allosh

Agricultural Marketing Service

Earl L Bar

Snap Bean

EXHIBIT A

Origin and Breeding History of the Variety

GREENPAK, a mid-season, green podded garden bean variety, was derived from the following hand pollinated crosses:

ASGROW BUSH BLUE LAKE #274 X (HARVESTER HYBRID X GALLATIN 50)
(Complex cross)

The final cross was made during the fall of 1963 and the following series of selections followed:

Year	Generation	Plot	Harvested
1964	F2	641646	1 Single plant selection 7 Single plant selections 3 Single plant selections 1 Single plant selection 5 Single plant selections 3 pounds 12 ounces bulk harvest
1965	F3	651342	
1966	F4	66161	
1967	F5	67560	
1968	F6	68115	

The plots listed above were only one of the several that were increased from each previous generation.

The 3 pound 12 ounce harvest from plot 68115 was increased as plot 69521 and the 5 single plant selections were increased as plots 69522 through 69526 during the 1969 season. A portion of the 25 pound harvest from plot 69521 was increased during the winter of 1969 and 1970 and this increase plus the balance of lot 69521 were increased as plots 70461 and 70467 during the summer of 1970. Four of the small pure lines were also increased as plots 70463 through 70466. These are currently being increased and will be reserved as pure line replacements to maintain the variety GREENPAK.

Variant types have consisted of approximately one flat podded plant per 5,000 plants and one string podded plant per 10,000 plants. There has also been a variant that is one to two days earlier and has slightly lighter pod color, and another that is one to two days earlier and has shorter pods than the released variety.

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.					
1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	2. KIND NAME		FOR OFFICIAL USE ONLY	
Greenpak	Snap Bean		PV NUMBER 7500055		
3. GENUS AND SPECIES NAME	4. FAMILY NAME (B	otanical)	FILING DATE	TIME A.M.	
	Leguminosae		FEE RECEIVED	BALANCE DUE	
	5. DATE OF DETER	MINATION	1: <i>25</i> 0	\$	
Phaseolus vulgaris	1974		12.50	\$	
6. NAME OF APPLICANT(S)	7. ADDRESS (Street Code)	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP		8- TELEPHONE AREA CODE AND NUMBER	
Rogers Brothers Company	P. O. Box 2 Idaho Falls	188 , Idaho 83401		(208)-522-0110	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)			ATE OF INCORPORATION 11. DATE OF INCORPORATION PORATION		
Corporation 12. Name and mailing address of appli	\	Delaware		1958	
Idaho Falls, Idaho 83401 13. CHECK BOX BELOW FOR EACH ATTAC X 13A. Exhibit A, Origin and Bre X 13B. Exhibit B, Botanical Desc X 13C. Exhibit C, Objective Desc X 13D. Exhibit D, Data Indicative	eeding History of the cription of the Varies cription of the Varies e of Novelty	ry	on 52 of the Plant Vo	ariety Protection Act.)	
X 13E. Exhibit E, Statement of th	· ·	_			
14A. Does the applicant(s) specify tha (See Section 83(a), (If "Yes," an 14B. Does the applicant(s) specify tha limited as to number of generation	nswer 14B and 14C b at this variety be	elow.)	YES X NO 14B, how many general seed?	erations of production	
The applicant declares that a viable sance of a certificate and will be reple	sample of basic seed enished periodically	of this variety will in accordance with	be deposited upon such regulations as	request before issu-	
The undersigned applicant(s) of this uniform, and stable as required in Sortant Variety Protection Act.	s sexually-reproduce	d novel plant variet	v believes that the	variety is distinct	
Applicant is informed that false repr	resentation herein ca	n jeopardize protec	tion and result in pe	enalties.	
2/4/75		Char	les From	2-m	
(DATE) (SIGNATURE OF APPLICANT)			NT)		
(D. + F.)	_		P **	1	
(DATE)		(SIC	NATURE OF APPLICA	NT)	

GREENPAK

Snap Bean

EXHIBIT B

Botanical Description of the Variety

GREENPAK is a mid-season, green podded, white seeded variety that is approximately of the same season as Early Gallatin and two to three days earlier than Asgrow Bush Blue Lake 274. The bush is one to two inches shorter than BBL 274, is more erect, and the pods are smoother. The pods are similar to those of BBL 274 with respect to the exceptionally fleshy character and ability to remain in prime eating quality for a good period of time. At optimum maturity the ratio of five and six sieve pods may be as high as 65 percent. The pods of GREENPAK have slow seed and fiber development, and the color is dark green. GREENPAK does not have a strong Blue Lake flavor, but has a unique and pleasing sweet flavor.

GREENPAK is resistant to the BV-1 and NY-15 strains of common bean mosaic virus.

GREENPAK

Snap Bean

Characteristics of Novelty:

GREENPAK has exceptionally fleshy pods with slow seed and fiber development, which had previously been unique to Bush Blue Lake 274. GREENPAK is most nearly like Asgrow Bush Blue Lake 274, but is generally three days earlier maturing than Bush Blue Lake 274 and has a five centimeter shorter bush. GREENPAK has a more erect bush and a rounder pod than Bush Blue Lake 274, and has a pleasing, sweet pod flavor which is unique to this variety.

YEAR

	1972	1973	1974	Avg.
		(Bush Height, cr	n)	
GREENPAK	38.1	40.6	48.3	42.3
BBL 274	43.2	48.3	50.8	47.4
		(Days to Canning	g)	
GREENPAK	65	71	58	64.6
BBL 274	68	73	61	67.3

Snap Bean

EXHIBIT E

Statement of Applicant's Ownership

Rogers Brothers Company, P. O. Box 2188, Idaho Falls, Idaho believes it to be the sole, original and first breeder of the GREENPAK variety of Snap Bean for which it solicits a certificate of protection.

EXHIBIT C (Bean)

INSTRUCTIONS: See Reverse.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY

BEAN (PHALEOLUS VULGARIS)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY	
Rogers Brothers Company	PVPO NUMBER	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	7500054	
P. O. Box 2188	VARIETY NAME OR TEMPORARY	
Idaho Falls, Idaho 83401	DESIGNATION	
	GREENPAK	
Place the appropriate number that describes the varietal character of this variety in the bo	exes below.	
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9	or less.	
i. ITE:		
1 1 = SNAPBEAN 2 = GREEN SHELL 3 = DRY EDIBLE	4 = MULTIPURPOSE	
2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:	4 - MOLTIPORPOSE	
The orange of th	·	
2 Grows best during: 1 = SPRING. 2 = SUMMER 3 = FALL	4 = WINTER	
5 ≈ SOUTHWEST 6 ≈ MOST REGIONS	= NORTHEAST 4 = SOUTHEAST	
3. MATURITY (Days from seeding to first horvest):		
5 9 GREEN PODS 6 6 GREEN SHELLS	9 7 DRY SEEDS	
0 3 NO. DAYS EARLIER THAN 7	2 = KENTUCKY WONDER 3 = KINGHORN WAY	
4 = WHITE KIDNEY	2 = KENTUCKY WONDER 3 = KINGHORN WAY 5 = MICHELITE 62 6 = DWARF HORTI -	
0 3 NO. DAYS LATER THAN 3 7 = BUSH BLUE LAKE	·	
4. PLANT: #274_		
1 = DETERMINATE, ERECT BUSH 2 = DETERMINA 3 = DETERMINATE, SEMIPOLE 4 = INDETERMINATE	TE, SPRAWLING BUSH IATE, POLE	
0 4 3 CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE	•	
0 0 3 NUMBER PRIMARY BRANCHES PER MAIN STALK	2 O CM. SPREAD	
TOTAL STARK STARK	3 0	
1 Branching habit: 1 = COMPACT 2 = OPEN	0 4 NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE	
0 1 CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF	0 5 MM. STALK DIAMETER ABOVE	
1 Main stalk: 1 = BRITTLE 2 = WIREY 1 1. STOUT 2. THIN	FIRST TRIFOLIATE LEAF	
2 Flower position:		
Pod Position: 1 = LOW, CONCENTRATED 2 = HIGH, CONCEN	TRATED 3 ≈ SCATTERED	
	•	
5. LEAVES:		
1 = SMOOTH 2 = WRINKLED 1 = DULL 2 = GLOSSY	Thickness: 1 = THIN 2 = MEDIUM 3 = THICK	
Size: 1 = SMALL (Earliwax) 2 = MEDIUM 3 = LARGE (Tendercrop)	CM. PETIOLE LENGTH (To basal leaflets of first trifoliate leaf)	
2 Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED	3 = SHARP POINTED	
2 PUBESCENCE - Dorsal:		
1 = NONE 2 = SLIGHT 3 = CONSIDER ABLE		
PUBESCENCE - Ventral:		
3 Color: 1 = LIGHT GREEN (Bountifol) 2 = MEDIUM GREEN 3 = DARK GR	4	

2 ≠ MEDIUM GREEN

3 = DARK GREEN (Bush Blue Lake)

FORM GR-470-12: (PAGE 3 OF 3 PAGES)	PV # 750005 T			
IO. ANTHOCYANIN: (7 = Absent 2 = Present):				
1 FLOWERS 1 STEMS 1 PODS	1 SEEDS 1 LEAVES			
11. DISEASE RESISTANCE (0 = Not tested; 1 = Susceptible; 2 = R	esistaat):			
1 RUST (Specify race)	0 ANGULAR LEAF SPOT			
0 BACTERIAL WILT	2 COMMON BEAN MOSAIC			
0 ANTHRACNOSE	1 YELLOW BEAN MOSAIC			
O SOUTHERN BEAN MOSAIC	1 FUSARIUM ROOT ROT			
1 CURLY TOP	2 N.Y. 15 BEAN MOSAIC			
0 POWDERY MILDEW	0 BEAN MOSAIC VIRUS 4			
1 HALO BLIGHT	0 FUSCOUS BLIGHT			
0 ALFALFA MOSAIC VIRUS	0 ALFALFA MOSAIC VIRUS 2			
0 POD MOTTLE VIRUS	0 RED NODE VIRUS			
0 ROOT KNOT NEMATODE	2 OTHER (Specify) Air Pollution *			
12. INSECT RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)				
0 APHIDS	0 LEAF HOPPERS			
O POD BORER	0 LYGUS			
0 THRIPS	0 WEAVILS			
0 SEED CORN MAGGOT	OTHER (Specify)			
13. PHYSIOLOGICAL RESISTANCE: (0 = Not tested; I = Susceptible; 2 = Resistant)				
0 HEAT 1 COLD 0 DROUG	OTHER (Specify)			

REFERENCES: The following publications may be used as a reference in completing this form:

- Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931.
- 2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 330. 1965.
- 3. USDA Yearbook of Agriculture. 1937.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.

* J. P. Meiners, U.S.D.A. Beltsville, Maryland 1974

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

